

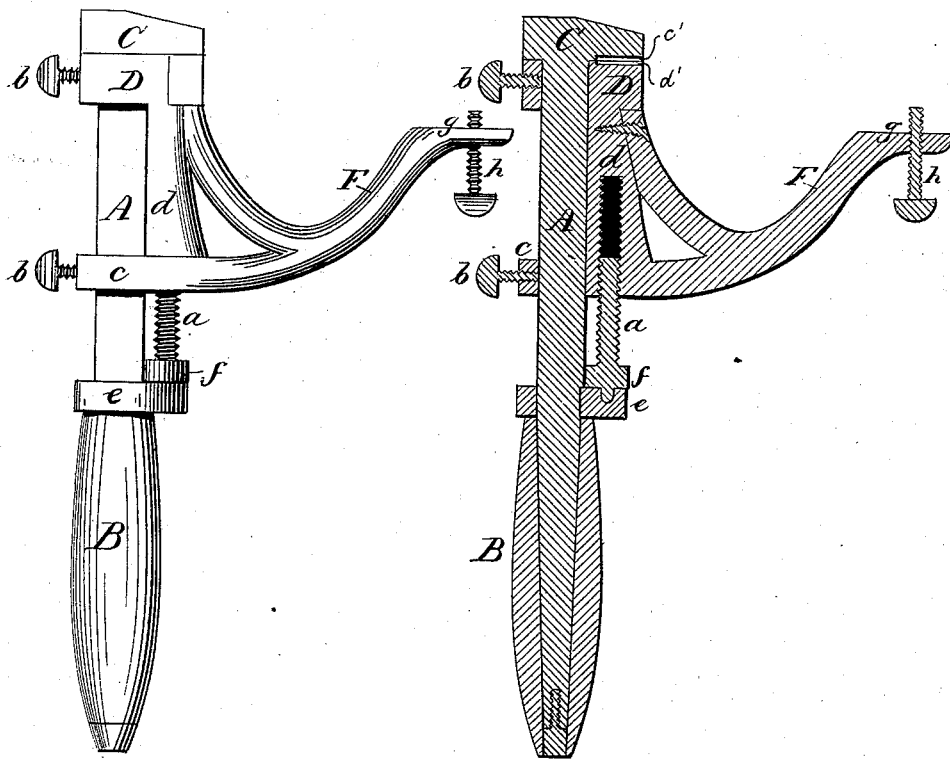
J. BACKER.  
Combined Wrench and Saw-Set.

No. 199,489.

Patented Jan. 22, 1878.

Fig. 1.

Fig. 2.



Attest:  
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# UNITED STATES PATENT OFFICE.

JACOB BACKER, OF ROSE HILL, TEXAS.

## IMPROVEMENT IN COMBINED WRENCH AND SAW-SET.

Specification forming part of Letters Patent No. **199,489**, dated January 22, 1878; application filed July 26, 1877.

*To all whom it may concern:*

Be it known that I, JACOB BACKER, of Rose Hill, in the county of Harris and State of Texas, have invented certain new and useful Improvements in Combined Wrench and Saw-Set; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view, and Fig. 2 is a vertical section.

Similar letters of reference indicate corresponding parts in both figures.

My invention relates to the combination of a wrench with a saw-setting device attached to the sliding jaw thereof.

The construction and operation of my invention are as I shall now proceed more fully to describe.

In the drawings, A is the stock of a wrench, having handle B and stationary jaw C, of the usual construction. D is the movable jaw, which slides upon stock A. Jaw D has a separate stock, *d*, fitting flat upon stock A, and provided at its lower end with a loop, *e*, fitting around stock A, thus serving as a guide for jaw D.

Stock *d* has a longitudinal screw-threaded perforation, in which works a screw-bolt, *a*, pivoted in a bracket, *e*, secured to stock A just above the handle.

Screw-bolt *a* may be operated by a solid nut, *f*, attached to it above bracket *e*, thus sliding jaw D and its attachments up or down stock A, according to the direction in which it is rotated.

The upper face of jaw D and the underface of jaw C have each a shallow triangular recess, *c'* *d'*, facing each other, to accommodate the saw-teeth, thus insuring uniformity in the performance of the operation of saw-setting.

F is a bracket, extending laterally from the jaw D and its stock *d*, and provided at the

end with a plate, *g*, having a screw-threaded perforation, in which a thumb-screw, *h*, is inserted. The face of plate *g* should be on a lower level than that of jaw D.

*b b* are thumb-screws, arranged in jaw D and loop *c* to press against stock A, for the purpose of securing the sliding jaw and its attachments rigidly in position when used as a saw-set.

From the foregoing description, and by reference to the drawing hereto annexed, the operation of my invention will be readily understood.

The pitch to which the saw-teeth are to be bent being first regulated by the set-screw *h*, the teeth of the saw are inserted into the recess formed by the shallow triangular recesses *d'* *c'* of the jaws D C, the former of which has been previously adjusted by screw-bolt *a*, and secured rigidly in position by thumb-screws *b b*. The teeth may then be easily and evenly set.

I am aware of the patent to S. Smith, October 4, 1859, in view of which I do not broadly claim the implement herein described; but

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The improved combined wrench and saw-set herein described, consisting of the stock A, having solid jaw C and handle B, and adjustable sliding jaw D, having bracket F, provided with plate *g* and thumb-screw *h*, and set-screws *b b*, the jaws C D being provided with recesses *c'* *d'*, facing each other, as shown, all combined, arranged, and operating substantially in the manner and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JACOB BACKER.

Witnesses:

JACOB MÜLLER,  
HENRY FULKS.